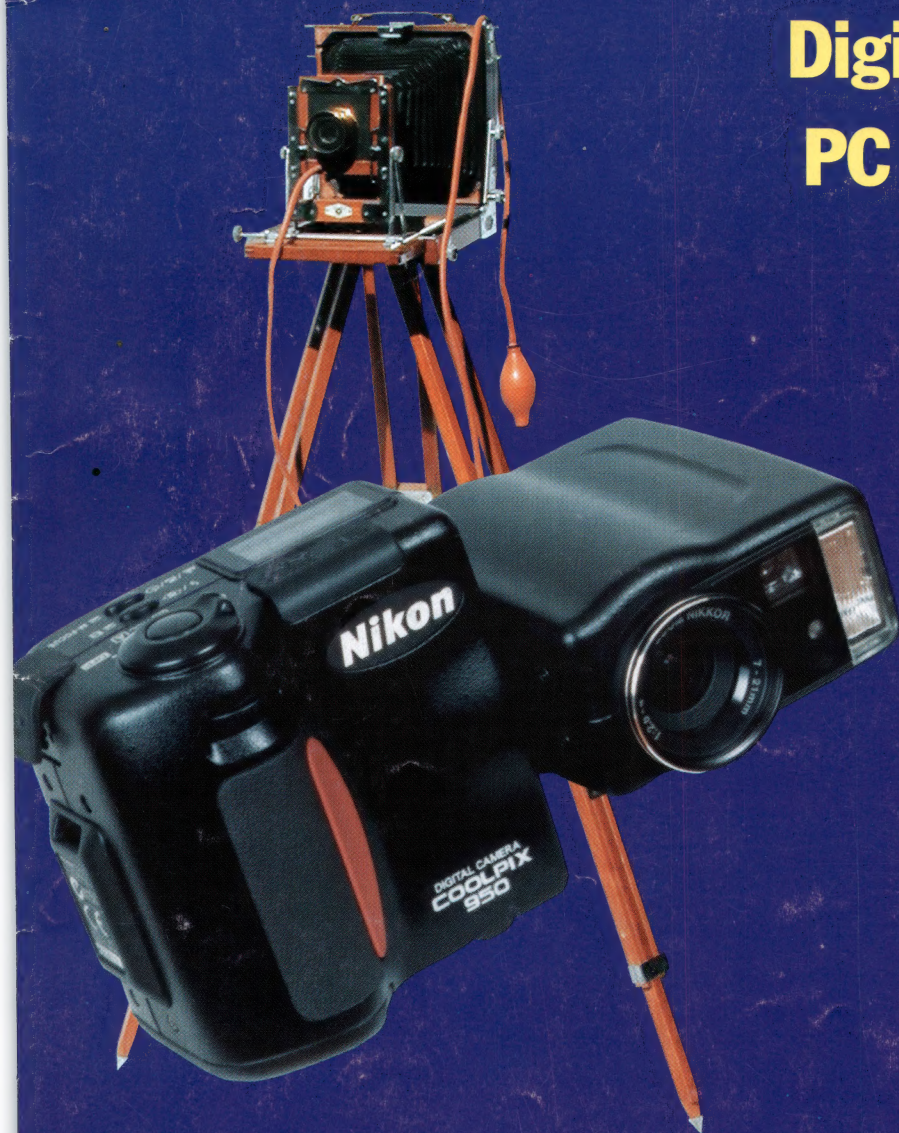


PC Update

October 1999 Volume 16, Issue 9

Digital Photography PC Bitmap Imaging



News
Reviews
Tutorials
AGM and Elections
Special Interest Groups

TELEPHONE LINE SHARING '99

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OPERATE any FAX and/or MODEM on any VOICE line, with or without FaxStream Duet

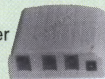
VOICE - FAX

Choose **EASY-CONNECT PLUS** for no compromise Fax reception on any Voice line! Integrate Any Fax (or Modem) into any Telephone Line using your existing number and/or a FaxStream Duet number. Completely Automatic and Transparent operation, without Compromise. No special wiring, any device at any location.



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OPERATE your MODEM, MULTIPLE MODEMS, or your EFT-POS on your FAX LINE

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Turn ON, Turn OFF or RESET your PC, NETWORK or any ELECTRICAL device by TELEPHONE

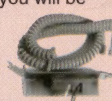
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RTA will allow you to call in on your telephone line and SWITCH ON, SWITCH OFF, or RESET up to 6 separate electrical appliances, PCs or Networks using a touch tone telephone and PIN Number. Our Line Sharing technology means you can use it AUTOMATICALLY, on any existing line.



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Office, membership, deliveries

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Fax: **9699 6499**

Mail

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office@melbpc.org.au
Tricia Swan
Margaret Greer
Kerry Williams

First Aid (Help) line

(10 am — 3 pm) **9696 9200**

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Online Services

Melb PC BBS

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max 56 kbps (V.90) **8626 5000**
120 lines, up to 120 mins total, per
day, max 56 kbps (K56flex) **9934 9400**

Intranet Service

26 lines, 30/10 mins, extra if lines free,
max 33.6 kbps **9690 5644**

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PC Update

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PC Update

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Contributions

All authors must lodge a completed submission form (included in the style guide) that confirms that the article is previously unpublished (if previously published, the author must have the right to authorise republishing), and original, save for any content which is properly credited, and that Melbourne PC User Group Incorporated may publish the article on one or more occasions on paper, the Internet or otherwise, edit the article and/or permit republication by non-profit organisations. These are PC Update's standard terms of publication.

Before starting a review or article, write to the editor, in case someone else has beaten you to it. Then download, read and follow the style guide STYLAUTH.ZIP from area PCU.351 of the BBS. Note, anonymous submissions are not accepted.

Authors must present a balanced view of the subject matter, based on a reasonable period of use — if the article is overly critical they should submit a copy to the distributor or manufacturer for comment. Copies of such correspondence should accompany the submission.

Submitting articles and reports

Upload articles, reports and reviews to the BBS, as plain, unformatted

(ASCII) text files or plain unformatted (ASCII) text files bundled in a ZIP file with accompanying graphics. Do not use long file names or upload self-extracting EXE files. Make sure you are in the PCUP file area, before you upload the file. Leave a message to All (not 'Private') in the PC Update Discussion area. Submissions that conform to the above formatting requirements can also be sent by post, on a virus-free diskette, which will not be returned, to the Group's PO Box, or e-mailed, with attachments of less than 1 MB, to pcupdate@melbpc.org.au.

Editing

All articles are edited for style, spelling, grammar and length. Articles that may not be edited or that do not meet our standards, will be rejected.

Graphics

Supply graphics or screen shots, wherever possible, as colour, or black and white images, saved in one of the formats: TIF, BMP, PCX, WMF or EPS.

Rejections

Contact the editor if your submission is not published within four issues. Articles with long file names, self-extracting files or virus infections are rejected without notification. Other rejections are advised by phone or in writing.



PC (President's Comments)

*Morris Tobias,
President*

Many of you will already have heard that the Ziff Davis/APN deal for publishing *PC Update* is not going ahead. Although Ziff Davis has pulled out of our arrangement, we have reopened tenders and expect to make a decision about the publishing of *PC Update* in the near future.

A couple of weeks ago Gary Taig volunteered to put an interim *PC Update* together until we find a new publisher. No-one could disagree that the magazine you are holding at the moment is better than the newsletter we received last month. Our heartfelt thanks go to Gary and those who assisted him. They have all made a gargantuan effort in a very short time to bring this magazine to you.

New SIG

A new Special Interest Group centered in the Dandenong foothills is due to hold its first meeting on Sunday 3 October at the Progress Hall, Boronia.

We welcome the new SIG and hope it fares well. Thanks go to Jim McNabb for organising the meetings. For additional information contact Jim on 9754 4862

Additional Internet lines

An order has been placed for an additional 60 ISDN access lines on our Internet service. These should be connected by early October. An increase in bandwidth is also being negotiated.

Annual General Meeting

As you'll see later in this issue, John Swale has announced the 1999 Annual General Meeting and elections for Melbourne PC User Group. Nomination forms for office bearers and ordinary committee members are included. If you feel you are able to contribute to the management of Melb PC, I urge you to think seriously about standing for a position.


Also in this issue is the Group's financial statement for the 1998-1999 financial year. Once again the group has exceeded all expectations and we find ourselves in an ever strengthening financial position.

Late News

Sadly, just as we go to press I have received notice from Colin Lovitt that he is unable to continue in the role of vice-president. Colin's work takes him all over the country, often at very short notice and he feels he is not serving the group adequately when he is absent so often.

We will miss Colin's contributions to the committee decision making process. We thank him sincerely for all he has done and hope that one day soon his talents might again be available to the group.

Morris



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Editorial



Gary Taig

Isn't it terrific! We are members of a truly wonderful group that continues to grow and thrive and flourish. Every day there is more good news. Bill Ford reports this month that financially we are in good shape. We have another new SIG opening in the Dandenongs and Morris has more good news on the Internet Service. Everything's swinging.

Here's my first ever public confession. It's several years since I bought a computer magazine. After volunteering to produce this interim *PC Update* I went to the local newsagent to browse the shelves and get an idea of the quality of publication available, and of course, to gain some inspiration. Yep, it's all true; I hadn't looked at a commercial magazine for a long, long time and had to browse the current offerings in order to see just what the others even looked like.

Well, it turned out to be a short visit. I picked up a couple, put them straight down, bought *Windows NT* magazine for its content only, then went home and read it from cover to cover. There was simply no inspiration available; the

shelves were full of the same old thing. A completely new, albeit at this stage temporary *PC Update*, was going to be born.

Soon afterwards I posted a message in melbpc.general asking for assistance. Several people came forward but one person in particular stole the limelight. **Jim Colbert** just happened to mention he had a past that included photography and he mentioned he was interested in graphics. Being a keen student of both and knowing some of the content we had available for this month I grabbed Jim with both hands and got him involved immediately. The front cover of this issue is pretty much all Jim's work; we hope you like it.

Jim worked many hours, firstly organising the loan of the old and the new cameras, then setting up his studio and taking the photographs. He threw the lot into his favourite graphics software package and produced the cover background.

Congratulations and many thanks Jim for a truly magic result. A special thanks is warranted here also to **John Lee** from Shutter Box in Hartwell who lent

us the old *view* camera and to Maxwell Photoptics who lent us the expensive Nikon Coolpix 950 Digital. We don't mind giving a little plug to people who help the group in some way. By the way, the picture of the old camera was taken with the Nikon, but Jim had to use his own good gear to photograph the Nikon. The old box wasn't up to the task.

This issue is very thin; even though I had more material available there was little time. If you submitted a SIG report that didn't make it, or a members free ad or anything else please write or email me as soon as you read this so that we can ensure it's included in the November issue. Also, you won't find a membership application form or an Internet renewal form. I had to learn new DTP software to do this job and there was no time for mastering any special skills required for fancy work. Consequently this issue is fairly basic. It will improve. Next month we will have many more features and reviews and *PC Update* should be almost if not back to its usual size. I sincerely hope you enjoy these interim issues.

GT

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AUTHORISED **OKI** SERVICE CENTRE

Training Schedule — October and November

Quicken for Small Business \$240.00

Viv Martin

6.30pm – 9.30pm Tuesday 9, 16, 23, 30 November

Bookkeeping, record keeping, producing reports for accountants using Quicken or Quicken for Business.

Prerequisites: Basic Windows experience assumed. Ideally, ownership of the latest Australianised version of Quicken for Windows.

PowerPoint Intermediate \$60.00

Caroline Houston

6.30pm – 9.30pm Thursday 28 October

This course gives a more in-depth perspective to creating presentations using enhanced graphics and special transformations from slide to slide. Students will create presentations that can be given as on-screen shows or printed for use on an overhead projector. This course is a must in preparation for your next meeting/conference delivery.

Prerequisites: Familiarity with Win 95 including mouse and keyboard skills. This course also assumes familiarity with PowerPoint in creating basic slides and basic graphics or attendance at the Introduction course.

Access Intermediate \$207.00

Peter Fallon

6.30pm – 9.30pm Tuesday 5, 12, 19 October

This hands-on course is designed to build on a basic knowledge of the product, and teach you to how to perform many typical database operations and solve problems. You will learn how to build action queries that update the database, parameter queries, queries with calculations, forms and reports that require multiple tables and subforms/subreports. Most importantly, database design concepts will be discussed.

Prerequisites: Prior knowledge Access is required, or attendance at the Introduction to Access 97 course

Access Advanced \$207.00

Peter Fallon

6.30pm – 9.30pm Wednesday 10, 17, 24 November

This hands-on course is designed to build on a good knowledge of the product, and teach you to how to perform many complex and advanced database operations and solve technical problems. Create complex queries, and look at how the query engine actually works. Build complex forms and reports and create Macros and Visual basic for Application modules to automate them into a single application. Discuss and understand the limitations of Access.

Prerequisites: A very solid knowledge of Access 97 is required or attendance at the Intermediate Access 97 course.

Introduction to the BBS \$60.00

Lynn Pollock

9.00am – 12 noon Saturday 16 October

A basic examination of the Melbourne PC BBS covering initial logon, menu system, message areas, file areas and transfers, plus tips and tricks.

Prerequisites: None.

Introduction to the Internet \$60.00

Lynn Pollock

9.00am – 12noon Sunday 17 October

An overview of the Melbourne PC Internet service. Live explanations of all the major programs that make up the Internet. Full detailed discussion of the hardware and software items involved, including modems. General questions concerning Internet connections.

Prerequisites: None.

Using the Internet with Windows 95/98 \$120.00

Lynn Pollock

9.00am – 4.00pm Saturday 6 November

This is the basic course for Windows 95 users. It suits people about to install Win 95 Internet software or novice users of the

Internet who want a full explanation of the basic set-up and techniques involved. Hands-on individual installation of 32-bit Internet software. Explanation, discussion and live student Internet connections to demonstrate and practice all the major components.

Prerequisites: Win 95 experience.

Internet - Effectively using Web Browsers \$80.00

Lynn Pollock

1.00pm – 5.00pm Saturday 16 October

Complete examination and discussion of all the features in the latest versions of both Netscape and MS Internet Explorer. Configuring, bookmark and favourite management, saving images and data, offline viewing of saved information, effective use of search engines and techniques, and tips and tricks. Students have live Internet connections to practice their searching techniques.

Prerequisites: Students should have attended the basic Internet course or have a good understanding of Internet principles. This is an advanced course.

Web Page Design \$200.00

Steven Goldate

6.30pm – 9.30pm Thursday 14, 21
Wednesday 27 October
6.30pm – 9.30pm Monday 15, 22, 29
November

Students will learn how to write web pages for the World Wide Web. This includes HTML (Hypertext Markup Language) basics, use of HTML editors, both text and WYSIWYG. Students will gradually be introduced into the inner workings of HTML, learning how to write simple Web pages, then progress to more complex features such as using tables, frames, embedding sound files, incorporating public domain JAVA applets, how to create online slide shows and more. The course will cover such issues as features of good Web page design, FTP uploading issues and getting free stuff off the Net. Students will also learn about and will look at directory structures in HTML and file uploading with FTP.

Prerequisites: Preferably, students should be familiar with the Internet, using a Web Browser, have some basic word editing skills and be familiar with Windows.

How to Buy a Computer - Free

Ian Rankin

10.00am – 1.00pm Saturday 2 October
6.30pm – 9.30pm Thursday 4 November

What a computer does, what the jargon means, buying advice, tips and traps, no sales talk!

Prerequisites: None.

File Management, Archiving & Compression Techniques - \$60.00

Lynn Pollock

1.00pm – 4.00pm Sunday 17 October

Explanation of file management including virus location, files you can delete, and file errors. Archiving, covering some of the more common programs used and basic backup strategies. Additionally some techniques will be discussed for files you download from the BBS or Internet. This course stands on its own and also complements Introduction to the Melbourne PC BBS, Communications Workshop and Introduction to the Internet.

Prerequisites: Must be familiar with Windows.

Hardware Upgrade & Repairs \$120.00

Tom Coleman

10.00am – 5.00pm Saturday 9 October
10.00am – 5.00pm Sunday 24 October
6.30pm – 9.30pm Thursday 11, 18 November

Students will be able to dismantle and re-assemble a computer, replace major components. Be aware of the basic "Rules" and conventions of computer building. Know enough to get started on simple jobs.

Prerequisites: Familiarity with the basic functions of each of a computer's parts.

Introduction to UNIX \$60.00

Len Krois

6.30pm – 9.30pm Thursday 25 November

UNIX/LINUX basics for people who want a basic feel for the open systems environment. LINUX is a popular shareware version of UNIX that will run on IBM-compatible PCs. The session includes logging onto a UNIX system, finding your way around, manipulating files, viewing and editing text files, using the on-line text manual.

Prerequisites: Command line computing knowledge preferred.

Starting Windows 95 \$149.00

Mary Levens

6.30pm – 9.30pm Friday 22, 29 October
9.00am – 4.00pm Sunday 28 November

Introduces the computer novice to the concepts and skills required for effective use of the Win 95 environment. Covers basic Windows jargon and terminology, how to accomplish everyday tasks and how to change the way Windows looks and works. Students will receive a comprehensive exercise manual.

Prerequisites: None.

Advanced Windows 95/98 \$120.00

Lynn Pollock

9.00am – 4.00pm Sunday 7 November

A full and detailed examination of Windows 95 for experienced users. Topics include adding hardware, registry control and editing, backup techniques, communications, networking with Windows 95, conflict resolution, enhancing performance, system maintenance, and many tips and tricks.

Prerequisites: Must be familiar with Win 95.

Introduction to Networks \$120.00

Len Krois

9.00am – 4.00pm Saturday 23 October

This session will show you how to connect two or more computers so that you can share computer resources.

Prerequisites: Familiarity with Windows 3.1 or Windows 95.

Starting Visual Basic 6 \$212.00

John Bourke

6.30pm – 9.30pm Monday 4, 11, 18 October

This course gives an introduction to the Visual Basic development environment. Students will learn about event driven programs, controls and properties, essential VB language statements, data types, decision-making and looping. At the end of this course students will be able to write simple VB programs that interact with the user.

Prerequisites: Familiarity with Windows, preferably Windows 95, including Mouse and Keyboard skills.

A basic general knowledge of computers. Useful, but not essential, is an understanding of programming concepts (including data types) and prior use of one or more programming languages.

If you have special
training needs, contact
the Melb PC
administration office on
9699-6222.

Digital cameras arrive In the mainstream

By Steve Morgan

I purchased my first digital camera 12 years ago. It was a closeout model that I paid \$90.00 for on an online auction. The highest resolution it was capable of was 320 pixels by 240 pixels, thus creating a 76,800-bit picture. The camera came with a .5-megabit memory, so I am able to take about 8 pictures before the memory is full. There is no flash available. The size of the pictures when I print them is about 1 1/2 inch by 1 inch, and they actually look pretty good, until I try to enlarge them, then they look pretty bad. The camera is excellent for sending pictures via email since their small size makes them fast to send and receive. There is no way to display the picture I have taken, without sending them to a computer first, so I always have to wait to see how they look. I have never had to replace the batteries that came with the camera.

Today's cutting edge consumer digital cameras cost \$700-\$1000, and take picture resolutions of 1800 by 1200 bits, creating a picture with almost 2 megabytes of pixels. They come with flash memory cards that have between 4 and 32-megabyte capacities and have software that compresses the images so that you can take between 6 and 80 pictures before having to download the pictures to a computer. If no computer is available, just snap in a new memory card just like you would put in a new roll of film. For the ultimate in capacity, some cameras are now starting to support the new IBM 170 and 340 MB Microdrives, and Sony cameras will soon support a 200 MB floppy Disk that will allow for an almost unlimited number of pictures. Most new cameras come with a 1 to 2 inch LCD panel on the back so that you can preview the picture to see if you wish to keep it, that's a real money saver over film cameras. Many of these cameras have glass lenses and come with optical zooms that magnify up to 12 times. Flashes are standard and rechargeable batteries are required to keep you from

going broke! Printing pictures from these camera's results in 8 by 10 inch glossy pictures that are indistinguishable from those created by 35 mm prints!

As you can imagine, in-between my camera and the cutting edge cameras, there are a great many other digital cameras that are priced between \$200 and \$700. However, while there are many good cameras, there are some that will disappoint. Let me tell you what to look for when buying a digital camera.

1. The best quality cameras come with a glass lens. While several good cameras come with plastic lenses, they will be prone to deteriorate much more quickly than ones made with glass.

2. Look for a camera with an optical zoom lens. Most people take pictures of the great outdoors, and it is difficult to get close enough to get good detail in your pictures without an optical zoom. Many cameras advertise a digital zoom lens, just remember that a digital zoom just crops the current view and uses software to make the remaining image larger. Many cameras come with both kinds of zoom, for example a 3X optical zoom with a 2X digital to make it seem like a 6X zoom.

3. Examine how the camera downloads the pictures to the computer. The amount of time can vary dramatically depending on the method used. The slowest way is to have a serial port connection; a better way is via a USB connection and even faster is using the new Firewire connection that is starting to appear on computers. Another fast option is to use a floppy disk, or a memory card reader that can be plugged in to the floppy disk drive.

4. Check and see how visible the LCD panel is in sunlight. A washed out screen will make it harder to see what you are shooting. The LCD also takes up battery power, and does not update very quickly. A regular see-through optical viewfinder is always nice to have in your digital camera.

5. Cameras that accept other lenses give you more flexibility. There are several cameras out there that allow you to screw on a wide angle or telephoto lenses. Putting in a filter also helps with special effects.

6. Always look for a camera that will output to a TV. This will not only allow you to see a much bigger picture to share with others, but by using a VCR you could make a tape of your favorite photos or an easily viewed slideshow of a trip or vacation.

7. Nice optional features include Picture delay, audio imprint, burst mode, thumbnail images and panoramic mode.

Digital cameras are definitely the wave of the future. But if you are not quite ready for the cost of a good camera yet, remember that you can always ask for your regular photos to be put on a CD. Kodak does this for a nominal fee, and each disk includes the software the will let you view the photos right from the CD.

Lastly, always do your research when buying a major item of this nature. My favorite research sites for digital cameras are www.zdnet.com and <http://photo.askey.net>. Both sites let you see reviews and comments about many of the cameras that are available for purchase. If you are looking for a bargain, be sure to check out www.onsale.com or www.ubid.com and look for digital cameras that are being auctioned under the computer category.

This article is furnished as a benefit of our membership in the Association of Personal Computer User Groups (APCUG), an international organization to which this user group belongs. The author, Steve Morgan, is a member of the APCUG Board of Advisors. He represents Region 5, which covers AK, ID, MT, OR, WY, ND, SD and WA. Steve is also a member of the Editorial Committee. He's one busy guy!

Volunteers corner

Jean D'Andrea

Things have been pretty quiet in the corner lately, although a few volunteers have come forward, and a few vacancies have occurred. Some vacancies have been filled, but others still need people.

Monthly Meeting

You may recall we required a couple of members who attend, or would be willing to attend, the monthly meeting in order to staff a *Welcome Table*. We still need to find some friendly, welcoming people who would like to meet new members and members attending the meeting for the first time.

Remember your first meeting, and how it felt to walk into a room full of strangers? A bit daunting, so please think about being a Welcomer, so others needn't feel that way.

Swap Meets

Most swap meets currently have enough volunteers, although Ivanhoe is the exception. If anyone could spare a couple of hours on the third Sunday in each month to help out, it would be great. You even get to attend the Swap Meet for free, and meet some other members into the bargain. Come on, all you members, you might even learn something whilst answering visitors queries.

If you'd like to volunteer for the other Meets, we could put you on our emergency list as sometimes the regular staff just can't make it for some reason, and it would be good to be able to call on you to fill in for them.

General

One thing I have noticed, as I've worked on the Volunteer DataBase is that the same names keep appearing in various areas. The Group is fortunate to have these people willing and able to help, but they can't keep up the pace for ever; volunteer burnout is alive and kicking so come on, help out a little and get that warm fuzzy feeling!

Perhaps the Sig Leaders, and others who haven't contacted me so far with an up to date list of their current volunteers, could do so soon. please? I really would like to get this data base completed, so that we'll have a current reference regarding the requirement for volunteers, that both the office and myself can use.

That's about it for now, so please think about helping out. Feel free to leave a message with the office or email — jda@melbpc.org.au

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Morris Tobias has been a member and long-time supporter of Melb PC since 1987. Hundreds of members have benefited from his expertise.



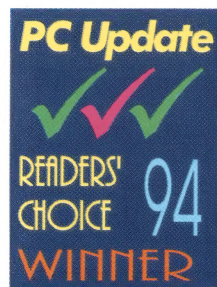
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COMPUTER REBUILDS

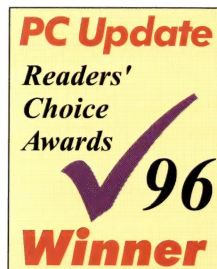
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Financial Report for year ended 30 June 1999

I am very pleased to present the financial reports of the Group as at 30th June 1999 which indicate that we continue to be in good financial shape.

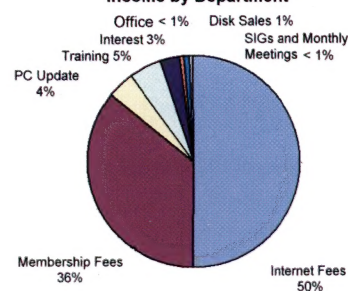
MELBOURNE PC USER GROUP INCORPORATED INCOME AND EXPENDITURE STATEMENT FOR YEAR ENDED 30 JUNE 1999

INCOME	1999	1998
	\$	\$
Non-Operating	53,578	52,127
Disk Sales	13,336	2,472
PC Update Income	56,481	78,793
Membership	475,302	483,425
PD Sales	0	26,022
Training	63,902	63,962
Internet	663,395	555,112
TOTAL INCOME	1,325,993	1,261,913
EXPENSES		
Advertising & Promotion	5,452	10,004
Archive Storage	649	0
Audit & Accounting	2,750	2,750
Connection Costs	199,839	184,360
Bad Debts	0	0
Bank Fees	11,125	10,148
Cleaning	10,679	9,633
Commission Advertising	9,015	13,301
Conferences & Meetings	28,770	30,372
Consultancy	21,525	22,413
Consultancy — Marketing Project	4,125	0
Dealer's Deal Commission	50	0
Debt Collection Expenses	0	0
Delivery Expenses	66,458	65,432
Depreciation	248,114	246,893
General Expenses	380	-24
Heat Light & Power	13,349	11,254
Insurance	7,548	7,651
Legal & Litigation Costs	1,533	6,703
Postage	18,156	21,284
Printing & Stationery	14,602	16,077
Production — PC Update	159,028	166,440
Purchases Disks	2,279	5,291
Library Book Purchases	296	588
Rent Rates & Taxes	58,432	59,550
Repairs & Maintenance	13,179	6,322
Security	2,359	1,182
Software	4,841	2,310
Staff & SIG Amenities	3,090	2,260
Subscriptions & Donations	1,188	796
Superannuation	5,915	6,977
Telephone & Fax	99,114	107,730
Travel & Accommodation	13,484	17,427
Wages & Salary	91,033	125,062
Workcare	704	972
Total	1,119,061	1,161,163
Extraordinary Costs — Litigation	0	53,211
TOTAL EXPENSES	1,119,061	1,214,375
Operating Surplus	206,932	47,538

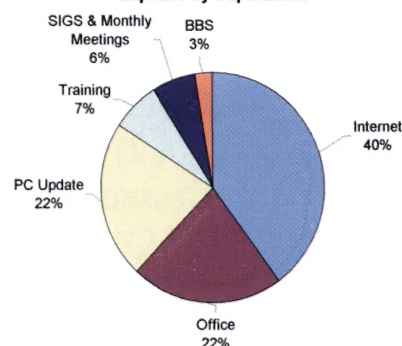
BALANCE SHEET MELBOURNE PC USER GROUP INCORPORATED FOR YEAR ENDED 30 JUNE 1999

	30 JUNE 1999	30 JUNE 1998
Current Assets		
Debtors	\$8,147	\$15,163
Less Provision for Doubtful Debts	(\$3,000)	(\$3,000)
	\$5,147	\$12,163
Commonwealth Bank of Australia	\$77,638	\$121,023
Bank Bills	\$1,191,971	\$772,082
Term Deposit	\$32,500	\$32,500
Cash on Hand	\$400	\$400
Stock On Hand	\$182	\$364
Prepayments	\$8,635	\$8,711
	<u>\$1,316,473</u>	<u>\$947,243</u>
Less Current Liabilities		
Creditors and Accruals	\$59,650	\$98,481
Sundry Creditors and Accruals	\$464,900	\$407,020
	<u>\$524,550</u>	<u>\$505,501</u>
	<u>\$791,923</u>	<u>\$441,742</u>
Add Fixed Assets		
Equipment & Fittings	\$1,219,434	\$1,114,569
Less Provision for Depreciation	(\$918,819)	(\$669,166)
	<u>\$300,615</u>	<u>\$445,403</u>
	<u>\$1,092,538</u>	<u>\$887,145</u>
Represented By		
Membership Equity 1 July 1998	\$885,452	\$837,915
Equipment Reserve	\$154	\$1,694
	<u>\$885,606</u>	<u>\$839,609</u>
Add / (Less) Surplus to Date	<u>\$206,932</u>	<u>\$47,536</u>
	<u>\$1,092,538</u>	<u>\$887,145</u>

Income by Department



Expense by Department





William Ford FCPA
Treasurer

Notes to the Accounts for the year ended 30 June 1999

1. Statement of Accounting Policies

The accounts have been prepared and presented in accordance with Australian Accounting Standards and the requirements of the Associations Incorporations Act (1981), which have been consistently applied. They have been prepared using historical cost convention and do not take into account changing money values or, except where stated, current valuations of non-current assets.

2. Stock and Purchases

Stock is valued at the lower of cost and net realisable value, and costs are assigned on a first-in first-out basis.

3. Fixed Assets

Fixed assets are brought into account at cost less accumulated depreciation.

4. Depreciation

Depreciation on assets is calculated on a straight line basis over the useful life of the asset commencing from the time the asset is first available for use.

5. Prepaid Subscriptions

All subscriptions for membership relating to the period after 30 June 2000 and Internet relating to the period after 30 June 1999 are included in the accounts as current liabilities, and will be allocated to the periods which they cover

6. Commitments and Contingencies

	30 June 99	30 June 98
Operating lease commitment		
Future minimum operating lease payments		
Not later than one year	\$ 80,621	\$ 77,520
Later than one year but not later than two years	\$ 83,846	\$ 80,621
Later than two years but not later than five year	\$ 90,971	\$ 174,817
	\$ 255,438	\$ 332,958

7. During the year, the Group entered into contracts with Skarbek Consulting to the value of \$10,671 for the supply of resellable books. George Skarbek is a member of the Committee of Management. Contracts to the value of \$20,629 were entered into with Computer Rebuilds for the supply of hardware and software. Morris Tobias, President of Melbourne PC User Group is a director of Computer Rebuilds.

MELBOURNE PC USER GROUP INC.

STATEMENT OF CASH FLOWS — FOR THE PERIOD 1.7.98 TO 30.6.99

	1999	1998
	\$	\$
Cash Flows from Operating Activities		
Receipts from members	471,286	491,514
Internet receipts	663,395	555,112
Other receipts	195,068	209,070
Payments to suppliers and employees	(851,380)	(897,017)
Net Cash provided by/(Used in) Operating Activities	478,369	358,679
Cash Flows from Investing Activities		
Payments for property, plant and equipment	(101,865)	(409,283)
Net Cash used in Investing Activities	(101,865)	(409,283)
Net increase/(decrease) in cash held	376,504	(50,604)
Cash at beginning of Financial Year	893,505	944,109
Cash at end of Period	1,270,009	893,505

MELBOURNE PC USER GROUP INC

STATEMENT OF CASH FLOWS — FOR THE PERIOD 1.7.98 TO 30.6.99

	1999	1998
Notes to the Statement of Cash Flows		
1 Reconciliation of Cash		
Cash on Hand	77,638	121,023
Cash at Bank	400	400
Bank Bills	1,191,971	772,082
	1,270,009	893,505
Reconciliation of Operating Income to Net Cash Provided by Operating Activities		
Operating Income	206,932	47,558
Add/(less): Non cash items		
Depreciation	248,114	245,009
Net Cash provided by Operating Activities before changes in Assets and Liabilities	455,046	292,567
Changes in Assets and Liabilities		
(Increase)/Decrease in Receivables	4,016	(8,089)
(Increase)/Decrease in Inventories	182	602
(Increase) in Other Current Assets	76	3,154
Increase/(Decrease) in Creditors	19,049	70,445
Net cash provided by operating Activities	478,369	358,679

AUDITOR'S REPORT TO THE MEMBERS OF MELBOURNE PC USER GROUP INCORPORATED

I advise that I have audited the financial statements, including the Balance Sheet, Income & Expenditure Statement and Notes to the Accounts, of the Melbourne PC User Group Incorporated ("the Group") for the year ended 30 June, 1999 in accordance with Australian Auditing Standards.

The audit has been conducted in accordance with Rule 37 of the Group's rules. I have not been requested to audit, or express an opinion on, any matters not contained within that Rule, and accordingly no such opinion is expressed herein. I have obtained all the information and explanations requested.

In my opinion:

(a) the Balance Sheet, Income & Expenditure Statement and Notes to the Accounts are properly drawn up:

- (i) to exhibit a true and fair view of the financial position of the Group as at 30 June, 1999, and
- (ii) in accordance with the books of account of the Group, and
- (b) the rules of the Group relating to the administration of funds have been properly observed.

Dated this 14th day of September, 1999.

Peter G Salter, FCA
Registered Company Auditor

Looking inside the square

A brief introduction to PC Bitmap Imaging

This article has been written mainly for those members who are considering using some form of digital photo manipulation on their PCs, or who wish to produce colour photos using their colour printers.

Current PC bitmap imaging, whether photo or video relies on little squares known as pixels which exist everywhere except on the final output, whether we have an analog signal, a digital signal or lots of dots.

In this article, I will give you a brief summary of just what goes on inside those little squares and how they are able to work with each other to accept or display an image.

Monitors

(Standard, not LCD etc.)

Colour monitors have lots of pixels, usually from 28-40 or more every centimetre. (72-100 or more pixels/inch). Inside each pixel are three phosphor dots red, green and blue, which are activated by three guns at the back of the tube. When red and green are activated, you see yellow (Y) in that pixel. Likewise green and blue combine to make cyan (C), and red and blue give magenta (M). These are the colours used together with black (K), in the CMYK printing process. Dependent on the monitor/graphics card combination, there can be 256 levels (8 bit color) of each colour which allows for a combination of 16,777,216 colours (24-bit or truecolour). We won't go into bitplanes or lookup tables here, except to say that you look at 256 colours simultaneously, from a palette of over 16 million colours by using them.

Scanners

Scanners and other CCD (Charge-Coupled Devices) also have these little squares. Lots more of them in fact.

Typically the number would range between 120 and 480 per centimetre in a consumer flatbed scanner, and around 960 per centimetre on a consumer film scanner. Professional scanners have

more because they are required to do a better job, while consumer units invent any extra squares they may need. This is known as *Interpolation*.

Each pixel in a CCD array responds to the colour of light it receives with one or more *bits* of information.

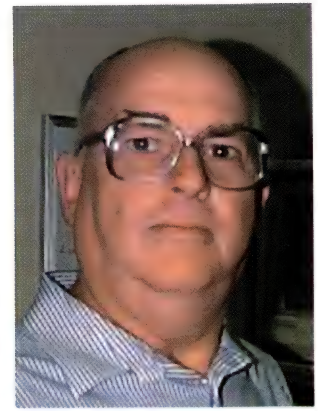
The *bit depth* of a consumer device is usually either 24-bit or 32-bit. As with monitors, 24-bit refers to 256 shades of each colour. The remaining 8 bits in 32-bit colour are used for what is known as an *Alpha Channel* which describes a transparency value for the pixel. When an image is later separated into distinct CMYK channels, 32-bit would then refer to 8-bits per each of the four channels. Separation, however, is not in the scope of this article.

Some scanners and image processing software also support 48- and 64-bit colour. Scanning at such high bit depths causes both high colour fidelity and huge files with more information than most software can handle. The scanning software usually analyses the file before saving and reduces it to a 24-bit subset of the most commonly used colours.

A word of caution: Scanner resolution is usually quoted in *dpi* (dots per inch) That is inaccurate; it should be *ppi* (pixels per inch) and is the first of two common misconceptions that a salesperson may have.

The second misconception: a scanner that has a *resolution* of 1200 x 600 dpi is optically a 600 *dpi* scanner, **not** a 1200 *dpi* scanner. The higher figure indicates that there are two banks of 600 ppi resolution CCDs.

I have lost count of the number of salespeople who have tried to tell me the higher value is the scanner's optical resolution. Many often quote the highest interpolated resolution. Don't even consider interpolation when purchasing a scanner. The image information in an optical pixel is the same as in a group of four interpolated pixels at 4800 *dpi*.



Lawrie
Weston

Camcorders & Digital Cameras

Camcorders and Digital Cameras have a fixed number of pixels. In PAL video systems, the grid is 740 x 578 pixels. They also invent higher magnification by actually increasing the displayed size of those pixels. Otherwise referred to as *Digital Zoom*. Digital cameras vary from 740 x 578 upwards (early models used Camcorder chips). Manufacturers currently try to blind you with science by using the term *mega-pixel*. That only means more than one million pixels (total) exist on the chip. A matrix of 1280 x 1024 pixels will have 1,310,720 pixels, which would place it in the mega-pixel category. We will shortly discover why you don't expect to blow up a poster print from that image.

Squares and Dots

To correspond with these pixels, most printers use dots of various resolutions. While there is similarity in the resolution of these dots to the resolution of pixels, there is not uniformity. Printers have the ability to increase the size of the dots to various degrees, according to such factors as the type of paper being used. Pixels always stay the same size; at least in theory. For this reason common usage has done us a disservice in referring to all forms of resolution as dpi. This will become more evident when we move to different forms of both scanning and printing.

In determining the relationship of the number of pixels required in the source image, to give the required number of dots for the printer to use, there are many factors involved. Much of this relationship can be worked out only by trying different settings with your printer and discovering what works best in terms of how you want your picture to look. These tests are part of setting

PC Update, October 1999

up all future projects and will be referred to later.

I offer the suggestion that although modern inkjet printers have a 1440dpi capability, most people seem to use something more like 300dpi for the output resolution when determining the scanning resolution. This will be covered shortly.

Putting it all together

How do we use these little squares in electronic bitmap imaging?

Photographs

The characteristics of a photograph are described in terms of image size and magnification. Higher resolution is achieved by using larger negative sizes. Less grain at a given magnification is achieved by using finer grained emulsions. In short, conventional photographers are concerned with the area of a negative and the area that will be covered in the final print. This determines both the type and size of film used and the focal length of the lenses.

Digital Photographs

Digital photographs are worked in terms of pixel resolution and printed in terms of printer resolution. Digital images are more about the number of pixels required on the longest dimension of the image. The rest will fall into place. The relationship between the electronic image and the hard copy image is the first and most important factor to consider at the start of a project. Yes, I said project because the whole digital process has to be considered as one, whereas in conventional photography there are two distinct stages, exposing film then printing, each of which can be variable.

Project 1

Given a photograph on film, negative or transparency, produce an inkjet print of a given size.

Factor1: How many pixels are required along the longest dimension of the image that I am sending to the printer?

Factor2: What is the corresponding length of my source image?

Factor3: What resolution do I have to scan the source image, to give me the required number of pixels?

Fortunately, the majority of better image software packages do the mathematics for you; all you need tell the program is the output printer resolution in dpi and the software will work out the scan resolution. The resolution you choose is not necessarily the resolution you will actually set for the printer, but rather the resolution you have worked out by your tests mentioned previously. For this reason I will refer to an output resolution as ppi because the resolution I will be referring to is part of the file, not the output. I'll give you a practical sample, but you have to work out what is best for your own situation.

Practical Example

Working with the commonly used imperial standard, I am to print an A4 size image from a slightly cropped 35mm slide.

I choose an output file resolution of 185ppi. Why was 185ppi chosen? Because from various tests it was determined that using a higher output resolution used more ink, when converted to dots by the printer, but produced little extra quality. Conversely, using lower output resolution showed an unacceptable print quality with this particular printer.

Length of image: allowing for border will be 10 inches. I will require 1850 pixels on the longest side of my image. Length of source used is 1.3 inches. My scan resolution will be 1423ppi. My printer will be set at 1440dpi

Result: My image will be 10 x 7.7 inches on an A4 sheet

If the print were to be produced commercially by an Iris or Pegasus printing system a set resolution would be that which the Bureau recommended and could have been eg 400ppi. Of course in this instance they would tell you to use 400dpi.

Project 2

I wish to print from a single frame grab from a video camera.

Factor1: I already know the number of pixels on the longest dimension of my image is 740 pixels.

Factor2: Choosing the same output resolution as for the previous sample project (185ppi), my maximum length on the output image will be 4 inches.

Result: My image will be 4 x 3 inches (approx.)

Project 3

I wish to print from a digital camera image 1280 x 1024 pixels.

Factor1: I know already that the number of pixels on the longest dimension of my image is 1280 Pixels.

Factor2: Choosing the same output resolution of 185ppi as for the previous projects my maximum length on the output image will be 7 inches.

Result: My final image will be around 7 x 5.5 inches.

Project 4

I wish to print an A4 print from a Kodak Photo CD.

Factor1: Find the image size to open the pcd file that best suits the print size required. Poster size is 3072 pixels on the longest dimension. Large size is 1536 pixels on the longest dimension. Standard size is 768 pixels on the longest dimension. Snapshot and Wallet sizes are too small for consideration.

Factor2: At 185ppi what are the lengths of the print from the three given Kodak image sizes? Poster size would be 16.6 inches long. Large size would be 8.3 inches long. Standard size would be a shade over 4 inches long.

Factor3: Decide if you want a print that has approximately 1.5 inch border or one that fills the page. This is because Poster size would be too large for the page and large size would be slightly too small to fill the page. Of course a third option would be to print four standard size images on the page.

Factor4: Assuming the full page (less small margin) is required the choice would have to be, to open at poster size and then re-sample down to the required number of pixels using the imaging software. Alternatively you could open at large size and resample upwards if you were prepared to accept the slight loss of quality.

Summary

An understanding of pixel resolution, bit depth, dot gain and other associated factors is necessary if you wish to have high quality results in computer manipulation of photographs.

While we are still using these little squares for bitmap images, it is necessary to look *inside* the square. □

AGM and Elections

Notice is hereby given that the 16th Annual General Meeting of Melbourne PC User Group Incorporated will be held on Wednesday 1 December 1999 at the Pharmacy College, 381 Royal Parade, Parkville at 6.30 pm.

The December issue of *PC Update* will give details of Committee nominations and proxy forms for those unable to attend in person.

Agenda — Annual General Meeting

1. Minutes

To consider and, if thought appropriate, pass the following resolution:

"That the Minutes of the 15th Annual General Meeting held on 2 December 1998, be approved as a true and correct record."

2. Reports

To receive the report from the President.

3. Election of Committee of Management

President, Vice-President, Treasurer, Secretary and eight ordinary members of Committee.

4. Accounts

To receive and consider the Treasurer's report and, if thought appropriate, pass the following resolution:

"That the statement pursuant to section 30 (3) of the *Associations Incorporation Act 1981* containing the Income and Expenditure of the Group for the year to 30 June 1999 and the assets and liabilities of the Group at 30 June 1999 be accepted."

5. Appointment of Auditor

Under rule 37 such Auditor may not be a member of the Committee, but may be a member of the Group, and shall be a member of the Australian Society of Accountants, Victorian Division or the Institute of Chartered Accountants of Australia, Victorian Branch, in public practice. □

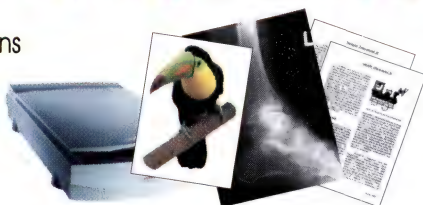


John Swale, Secretary

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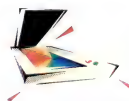
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Nominations

Nominations may be made on the form opposite, a photocopy of the form or on any other form that includes all the information on the form opposite.

Nominations must either be posted to:

The Secretary
Melbourne PC User Group Inc
PO Box 283
South Melbourne VIC 3205

or be hand- or courier-delivered to:

The Secretary
Melbourne PC User Group Inc
27 Dorcas Street
South Melbourne VIC 3205

Nominations delivered by fax, e-mail or BBS cannot be accepted. Nominations of candidates shall be in writing, signed by two members of the group and accompanied by the written consent of the candidate (which may be endorsed on the form of nomination). They must be received by the Secretary before 5.00 pm on Friday 29 October 1999.

Nominations received after the closing time will not be accepted.

Nominations not accompanied by all three signatures will not be accepted.

A Candidate may optionally submit one statement each, *not exceeding 100 words* [Rule 23 (6) (d)], in support of his or her nomination(s). This statement must be received by the closing time for nominations. Any statement received late, or exceeding 100 words, will be rejected.

Nomination Form

Position(s) for which nomination is made (tick as appropriate).

President	<input type="checkbox"/>
Vice President	<input type="checkbox"/>
Secretary	<input type="checkbox"/>
Treasurer	<input type="checkbox"/>
Committee Member	<input type="checkbox"/>

Candidate's name and membership number

..... No:

Candidate's signature
of acceptance

.....
Candidate's
residential address

.....
Proposer's name and
membership number

..... No:

Proposer's signature

.....
Seconder's name and
membership number

..... No:

Seconder's signature

Date / / 1999

Special interest group meetings

SIG Co-ordinator, Dave Botherway

Access (Database)

access-sig@melbpc.org.au
2nd Monday
6.30 — 8.30 pm
Ray Watson
9576 8520 BH & AH

Assembly & Other Languages

alt-sig@melbpc.org.au
1st Thursday
7.00 — 10.30 pm
Melb PC SIG Room
Felix Hofmann
9523 5400 AH
Don McKenzie
9521 3060 BH

Ballarat

ball-sig@melbpc.org.au
1st Thursday
7.30 — 9.45 pm
(except school holidays)
Ballarat & Clarendon
College
614 Mair St, Ballarat
VicRoads map 254 L12
Ken Smith
5332 7851 BH & AH

Bendigo

bend-sig@melbpc.org.au
2nd Wednesday
7.30 — 10.00 pm
Girton Grammar School
105 Mackenzie St,
Bendigo
(Vine Street entrance,
then follow the signs)
VicRoads map 282 K14
Russ Collins
5439 3708 BH & AH
Joe Henry

Clarion

clar-sig@melbpc.org.au
4th Wednesday
7.00 — 10.00 pm
Melb PC SIG Room
Chris Livingstone
9431 1897 BH & AH

Communications

comm-sig@melbpc.org.au
2nd Wednesday
7.00 — 9.30 pm
Melb PC SIG Room
Philip Lew
9822 2998 BH
(brief calls)

Daytime

day-sig@melbpc.org.au
2nd Thursday
10.00 am — 12 noon
Melb PC SIG Room
Don Buchanan
9509 7119 BH & AH
Graeme Minto
9440 5030 BH & AH

Digital Photo

3rd Monday, 7.00 pm
Melb PC SIG Room
Thom Lyons
0417 525 171

East

east-sig@melbpc.org.au
2nd Tuesday
7.30 — 10.00 pm
Multinet Theatre
200 Rooks Rd, Vermont
Melway map 62 H2
Keith Beresford
9733 5044 AH
9736 2515 BH
Margaret Brown
9874 5778

East Workshop

east-ws@melbpc.org.au
Sunday following the
East SIG meeting,
10.30 am — 2.30 pm
Multinet Theatre
200 Rooks Rd, Vermont
Melway map 62 H2
Ken Gubbins
9898 5478 PH/FAX

Graphics

graph-sig@melbpc.org.au
3rd Monday
7.30 — 10.30 pm
Melb PC SIG Room
Yahya Abdal-Aziz
9562 1023 AH (brief
calls)

Hardware

hardware-sig@melbpc.org.au
3rd Wednesday
7.00 — 11.00 pm
Melb PC SIG Room
Felix Hofmann
9523 5400 AH
Thom Lyons
0417 525 171

LUBe

lube-sig@melbpc.org.au
3rd Thursday
7.00 — 10.00 pm
Melb PC SIG Room
Thom Lyons
0417 525 171

MACE

(Melbourne Atari
Computer Enthusiasts)
mace-sig@melbpc.org.au
2nd Sunday
10.00 am — 2.00 pm
Melb PC SIG Room
Graham Hurford
9416 1126 AH
Roger Davies

Music

music-sig@melbpc.org.au
2nd Thursday
7.30 — 9.30 pm
Melb PC SIG Room
Yahya Abdal-Aziz
9562 1023 AH (brief
calls)
Eric Best
9376 1984 AH

New Users, East

neue-sig@melbpc.org.au
2nd Tuesday
7.30 — 10.00 pm
(except January)
St Mark's Anglican
Church,
Cnr Canterbury & Burke
Rds, Camberwell
Melway map 45 J10
Doug Brooke
9822 3458 BH & AH

NT

2nd Tuesday,
7.00 pm
Melb PC SIG Room
Andrew Callaway
9619 4067 BH

OS/2

os2-sig@melbpc.org.au
4th Tuesday
6.30 — 10.00 pm
Melb PC SIG Room
John Angelico
9544 8792 BH & AH

Programming

prog-sig@melbpc.org.au
2nd Tuesday,
7.30 — 10.00 pm
Melb PC SIG Room
Ross Hall
5428 6470 AH
9699 4000 BH
Andrew Callaway
9619 4067 BH

Quicken

quicken-sig@melbpc.org.au
4th Thursday
7.00 — 9.30 pm
Melb PC SIG Room
Viv Martin
9583 5372 BH & AH

Retired & Interested Persons

rip-sig@melbpc.org.au
10.00 am — 12 noon
4th (not last) Friday
Lutheran Church,
25 Cypress Ave,
Glen Waverley
Melway map 62 A9
Ken Thomas
9884 5309 AH
Noel Peters

Video Editing (General)

video-sig@melbpc.org.au
4th Monday
7.00 — 9.30 pm
45 Talbot Ave, Balwyn
Melway map 46 E8
Albert Vanzet
9439 1768 BH & AH

Video Editing (Non-linear)

videonl-sig@melbpc.org.au
1st Tuesday
(including Cup day)
7.30 — 10.00 pm
Melb PC SIG room
Lawrie Weston
9742 3738

Warragul

warr-sig@melbpc.org.au
1st Friday
7.30 — 10.00 pm
Warragul Education
Centre Smith St,
Warragul
VicRoads map 337 Q8
Lindsay Perston
5623 1756 AH

Web Development

webdev-sig@melbpc.org.au
4th Monday,
7.00 — 10.30 pm
Melb PC SIG Room
Thom Lyons
0417 525 171

Web Development workshop

webdev-sig@melbpc.org.au
2nd Saturday, 10.30 am
Melb PC SIG Room
Thom Lyons
0417 525 171
(members may bring their
own systems)

Western Suburbs

west-sig@melbpc.org.au
4th Tuesday
7.00 — 9.00 pm
Sunshine Squash
Centre,
cnr Kent and Stewart
Sts, Sunshine
Melway map 41 B2
Robert Mead
9312 5427 AH

Windows

win-sig@melbpc.org.au
1st Monday
7.00 — 9.30 pm
Melb PC SIG Room
Lynn Pollock
9598 3186 AH
9533 5002 BH

Updates/ Corrections
Please send to:

Dave Botherway
SIG Coordinator
daveb@melbpc.org.au

Web Pages

Many SIGs have their
own home pages.
Links to these can be
found at
www.melbpc.org.au/sig

SIGs are the life blood
of MelbPC.
Join one today

SIG meeting reports

Bendigo

The June meeting of the Bendigo Group looked at Microsoft Office, and with Alistair Shaw giving an interesting address on the use of Word, and many of the members being able to share their tips on the use of this program.

For July, Alistair again acted as convenor, with a session on hardware. He brought along his own computer, which he proceeded to dismantle to its individual components. This gave all the members present an insight into the components of a computer and how it goes together.

August saw Alistair showing us the ins and outs of graphics, using a scanner, manipulating and saving photos and line drawings.

The September meeting was an Internet session. This meeting was held at the Kangaroo Flat Secondary College where we were able to use the computers with an ISDN Internet connection. Alistair as usual gave every one present an excellent insight into the Internet, even those who considered themselves experienced gained tips.

October meeting is to focus on Excel and spreadsheets in general.

A visit to Fortuna Army Mapping facility is planned for November. This is an excellent chance for members to see first hand the incredible software that is used for mapping, also there will be an opportunity to look over the National Trust building which is the pride of Bendigo

The committee is looking for new presenters and interesting site visits. Planned are speakers on Genealogy and Farm Software.

Daytime

August meeting

Presenter: Graeme Minto, with another useful presentation from a member of our own Daytime SIG. Graeme demonstrated the various reasons why Go!Zilla is an excellent file download manager. It is a *must have* if you download large files from the Internet.

PC Update, October 1999

Downloading a file can be interrupted for all kinds of reasons. If you were using Go!Zilla you would find that when you next return to that point, your file download is ready to be resumed. When the required file is available to Gozilla from a number of different sources, it can choose the fastest site for the particular download, and if that site connection slows down below a preselected speed it can automatically search for a faster site.

Graeme took us through many of the programme's configuration choices available through menu/Go!/Options. Mostly the default settings are fine to get you in charge of your downloads. Go!Zilla has user-defined categories for files. Quickly and easily drag-and-drop the files directly to the categories. It can be configured for automatic Internet connect and disconnect. It will even shut down your computer when done.

Go!Zilla also has recurring download scheduling in order to automatically update changing files such as stock reports and weather maps. It can automatically run all incoming files through the virus checker for validation. It can set security options on a site-by-site basis to ensure proper authentication from your favourite download locations, and operates as a minimised system tray icon. The file is gozilla.exe, version 3.5, 1.74Mb, Freeware, on Tucows Windows 95/98, Connectivity section. The program has a 5-Cow rating, and has a version available for Windows NT.

September meeting

Ruth James will have taken us through many useful Windows housekeeping facilities. We received very good feedback from Ruth's Document System presentation, and we are looking forward to an informative morning.

October meeting

Internet tips & tricks by Don Buchanan, along with the intricacies of Buddy-Phone will be your reasons for attending this meeting.

East

'Beam Me Up Scotty'

Some of the East members were recently involved in stress testing the new Telstra product ConferLink Internet. At the August meeting Alister Webb (*Senior Product Manager of Multimedia Conferencing Services*) headed a team to demonstrate the practical application of the service which enable real-time sharing of electronic documents combined with telephone audio communication.

This enables many people to work collaboratively from remote situations without the need to travel. The charges incurred for the system compare very favourably with the cost of bringing together distant or overseas participants to an in-person meeting.

All participants see the same document on their own office PC and are able to access and edit the displayed document using a mouse. Any such changes are instantly visible to all other participants. This active corroboration greatly increasing the ability to learn and retain the information given. The configuration selected can determine whether all or some are able to access and interact or be limited to viewing only.

As with any face to face conference the optimum number involved would probably be limited but for some applications e.g. training, sales, marketing etc. the numbers could be far greater. The skills to access and use e-mail are all that is required to contribute to such a conference and as no Internet Locator Service is involved security is not compromised.

Tim Jenkins (*Project Engineer, Multimedia Conferencing Services*) discussed technical requirements. Of particular interest to many was the future concept of a virtual second line — a network solution that will allow the use of one telephone line for both audio and modem connection. For more information and FAQ visit www.conferlink.telstra.com.au

Our thanks to Cr Peter Allan, Mayor of the City of Whitehorse who found time in a very busy schedule to accept our invitation to attend the meeting. He briefly addressed the group to give an update of current local issues and future challenges to be addressed by Council.

Internet Marketing.

OnLine Auctions. Dave Botherway explained how one of the hottest topics on the web is controlled and we viewed the some of the extraordinary range of items currently being offered. He then guided us on a virtual shopping tour through the recently developed Coles OnLine site. www.coles.com.au All very reassuringly familiar stuff — the aisles, trolley, choices galore, specials, Shareholder discounts and the visual steadily mounting sub-total to reach our minimum purchase. The only things missing were the frustrating searches for obscure items (computers do that very well indeed!) and the checkout queues.

Once the initial weekly or monthly shopping lists are prepared repeat or modified orders can be e-mailed very quickly. Specific preferences for the guidance of the person compiling the order can be included and delivery time in a two hour 'window' specified.

George Skarbek gave a glowing endorsement of the system and is an enthusiastic supporter of the OnLine Supermarket. He is convinced that the service fee is well worth the saving of time and effort, preferring to relax at home and wait for the refrigerated delivery to arrive rather than join the hordes shuffling through the local Supermarket.

East Workshop

Report by Gary Taylor

There is no indication so far that our venue will be taken from us by the new owners of Multinet, so until further notice we will continue to meet at the Theatrette.

Beginners group

A large group gathered to ask questions and to see demonstrations of basic computing. The facilities are strained — using a 14 inch monitor for 15 people to learn on is difficult. At the

next meeting we will try to use two linked monitors, and will move to a quieter section of the building.

Genealogy group

The keen core of a dozen members stayed the full three hours and finally we got down to the heart of the SIG — genealogy. A (temporary) leader for the group was elected and everyone agreed that they would work together and be a self-help SIG. Most of the initial *computer ignorance* problems are sorted out and the group feels confident they are now able to use the Internet and software to assist in answering their genealogical queries. The September meeting will be the first true-to-its-subject meeting for the SIG — where several people will give their accounts of how they have so far done research and studies by going back into the cloudy past to retrieve information about their ancestors. A lecture-demonstration by a respected authority on genealogy is also being arranged, possibly for the next meeting of the East SIG.

Quicken

Report by Bob Mayston

Despite cold rainy conditions outside a warm enthusiastic reception inside awaited 19 members who braved the elements for the meeting. As usual Viv Martin led the question and answer session and amongst the more interesting items were the following.

The ever popular question of tracking and trading in shares has brought a flurry of commercial programs dedicated to picking winners and profits for their owners. These programs vary in price; some in excess of \$10,000. We had a quick review of several and the suggestion that Ausinvest news group is a good site for checking on this activity.

The now documented conflict between Office 2000 and Quicken v7 was again highlighted. A member complained that Windows 3.1x was not year 2000 compliant. Suggested a patch may be available from Microsoft. In any event time to upgrade to a more recent version.

Again on shares Viv showed how to change and adjust the date span graph of recorded share prices.

Someone wanted to merge QuickBooks files of the same type into one company. No easy way. Suggested to export to spreadsheet to show consolidation results.

There was some debate over the merits of the various on-line banking services on offer and the relative costs. Likewise on-line share trading services, particularly that offered by Quicken (Intuit).

Viv demonstrated how to create sub items in the items list. Possible to have several layers of subdivisions.

Viv showed how to record takeover entries where shares and cash were offered in exchange for existing scrip. The main topic of handling loan accounts was detailed showing how to record interest, charges and bank fees as tax-deductable items in the business. For loan amortization Australia uses the Rule of 78 which is more tax saving than the calculation method given in Quicken.

After the meeting we retired to a nearby coffee shop for refreshments good company and friendly debate. You are all welcome. Remember the fourth Thursday of each month except December, at the club rooms Dorcas St. The topic of the month is posted in the melbpcSIG news group. Please contact Viv to suggest any suitable topics you would like covered. We try to cater for both the newcomer and advanced user.

Video Editing General

Report by Albert Vanzet

For the second time Don Hawkins came to our meeting with a shop full of audio gear and prepared to continue his talk about "*Sound and Studio 400*". This time his address concentrated on the use of microphones with our video cameras. Don explained the difference between the various types of microphones and their specific uses. For general use and for interviews Don suggested the omni-directional microphone, which will take up the sound from a wide range around the mike. For wildlife photography, when we want to pick up the call from a bird at distance, he recommended a directional microphone. Don pointed out the various features to look for and

how to make sure that the microphone that we wanted to purchase would fit our requirements. From his bag of tricks Don produced a variety of microphones ranging from a cheap tie-clip mike to a foot-long directional microphone. It was reassuring to hear that most microphones are quite reasonably priced.

It was only during the break that we found the ghost of Murphy had joined our meeting. When our convener attempted to illustrate how to convert music from audiocassettes to a wave file for use with Studio 400 or DC10plus, Murphy's presence became evident. Despite having a computer expert and a sound expert on the job we found that the computer had become corrupted and the amplifier had blown a fuse.

Despite all efforts to rectify the problems we had to abandon our illustration and proceed with the theory only. However, we did manage to prove that we can use a two-and-a-half minutes song for a one-minute video by utilizing the first thirty seconds from the beginning and the last thirty seconds from the end of the song. A quick change of equipment enabled us to show some of our members' videotapes. Here we travelled from the Yosemite Park in the USA and the picturesque scenery of a German village to a Melbourne backyard where we saw how a simple bird feeder will attract some of Australia's most colorful birds.

Next month we will go back to basics with the Questions & Answers segment and some practical discussion about our Studio 400 and DC10plus programs. So, be prepared to ask your questions. We also intend to talk about what features are essential for a VCR that is used for video editing. We expect our members to bring in their latest productions for our segment *Members video*, always a highlight of our evenings.

Members are advised that our end-of-year meeting will be held on Tuesday, 7 December, at the theatre of our Balwyn venue. Like previous years this will be a combined meeting with the Non-Linear SIG and we expect our members to make a concerted effort to produce their best video for that meeting.

Windows

Report by Bob Mayston

The September meeting again attracted a capacity meeting of the curious, the besieged and admirers of the Windows Operating System. After the freebie video show the meeting opened on time at 7 PM and as usual there were plenty of questions for the problem solving segment led by Lynn Pollock. Among the more interesting questions were.

1) A member had recently loaded Windows98 Ver 2 upgrade. Thereafter but only on odd occasions, the system would hang during boot-up and display *Image 32 not responding*. A simple reboot solves the problem. Suggested causes are other products or residues of some deleted program. Suggested to run Conflict Manager, to check what substitutions Windows may have made to original setup.

2) There are some machines where Ver2 of Windows 98 causes problems on shut down. Advised in these cases there is a patch on Microsoft site to correct the problem.

3) Problems of instability in a machine traced to poor RAM connections. Removal and reloading RAM solved the problem.

4) A member had upgraded from Windows 3.x to Win 98 and concerned the time required for Windows 98 to load. As this was a networked machine this further slows the loading.

5) To access the Resource Kit in Windows 98 it is necessary to install it into the machine via `tools\reskit\install` from the Windows 98 CD.

6) To print *odds and evens* pages only (to facilitate binding) convert to a Word document and use the double sided or every second page printing feature in Word.

7) How to tell if it is a good motherboard? One that runs for 6 months without a problem.

The theme for the meeting was digital cameras. Developments in this area are happening almost daily and accompanied with corresponding reductions in price. Two members brought along their particular choice. Adrian exhibited a Sony FD71 bought in June 98. The prime reason for selection was it

outputs to a standard 1.4meg floppy disk so does not grab interrupts or resources from the computer. Images may be downloaded to any of several widely available image reading graphic programs. The software selected was IXLA reader. Photos taken may be instantly reviewed on the back LCD screen of the camera and deleted or reshot as needed. Batteries are rechargeable metal hydride and up to 950 photos claimed to be possible on one charge. This model camera comes with a 10x optical range and choices of picture resolution quality. Some examples of shots were shown and some differences from normal film observed and commented.

After the coffee break Paul showed his Kodak 265 camera. This records picture data on 16 meg ram chips. To view shots, the camera must be connected to the computer which has appropriate Picture Easy software loaded. Again 3 options of picture resolution possible. At highest resolution 30 pictures per RAM chip possible in the highest 1536 x 1034 pixel resolution. Lens range 38-115 mm. Like the Sony you have instant reviews possible on the LCD screen. The software is suitable for Windows95/98,NT and Mac machines. Batteries can be metal Hydride rechargeable or normal dry cells but the latter soon exhausted if flash and preview facilities used. Paul then showed some recent and local on the spot shots taken of members at the meeting. Again some minor distortions were visible and the limitations of flash shots more obvious than with film. The final demonstration was by Roswitha of her Epsom Stylus 800 colour jet printer. Photos of members taken a few seconds earlier by Paul were printed on a mat paper and showed the excellent results possible using a digital camera and colour printer considering the frame was A4 size. Even better results are possible using expensive glossy coated papers.

Members showed their appreciation for an excellent all round demonstration.

Remember the first Monday of the month January excepted, the Windows SIG meets at the Club rooms Dorcas st at 7 PM. Contact Lynn Pollock if you have a machine with a Windows related problem.



Random Access



John Swale

Unanswered questions

From Joel: In answer to Bulent Akkas question about his annoying problem with his computer freezing and then fixing itself. That happens to me as well, and it is because if you have been using it for a long period, it starts to heat up, and consequently, needs to *take a break*. It sounds like it is turning off, because it is doing what it would do if you put it into *suspend* mode. This turns off all non-essential electrical parts of the computer, and, on my machine, has also turned the monitor off before. This problem, to my knowledge, has only one fix: don't overuse your computer too much. It does no damage, but it is annoying.

From Alan Marks: The question posed by Bulent Akkas in the August issue of *PC Update* bears some resemblance to a phenomenon which occurs on my machine, a Pentium II 233. I have an external 100 MB Zip drive, connected to a dedicated parallel port. When I send data to the Zip drive, eg. when backing up my Quicken files, there is indeed a few seconds after clicking the back-up button when everything freezes, including the mouse, at the same time as the yellow *busy* light appears on the Zip drive. After the few seconds (I guess 2 or 3) everything goes back to normal. The same effect occurs at other times when there is no deliberate intention to write to the Zip drive, but I have not kept a record of when this is or whether it is reproducible. It is hardly even a minor inconvenience compared with other things that happen on the machine!

From Bryan Wise: The problem Bulent Akkas describes with the system hanging reminded me of a problem I had some time ago. My PC would just hang for no apparent reason and then continue on again after a gentle tap on the casing and there was an associated

whining noise like a disk spinning up. Eventually I tracked it down to a faulty connector between the power supply and the hard disk drive. When the hard drive was plugged into the power supply lead it had pushed the connector out of its housing in the plug and was just touching. Consequently any small vibration would cut off the power to the HDD and again a small tap would restore the power. A minor repair to the connector cured the problem permanently.

Questions and Answers

Q: I have heard that the desktop on Windows 98 sometimes crashes. Would Windows 98 Special Edition fix it?

A: Both Windows 98 and Windows 95 crash after 49 days of continuous running. Windows 98 has some bugs and SE fixes many of these including the 49 day one, but whether it is more stable is hard to say. Some users have found that things that worked before don't work after installing SE.

Q: In Windows 95, when creating shortcuts for Notepad and Wordpad, you could specify the starting directory. Windows 98 will not let you do it. I have managed to get Notepad to work by copying it from Windows 95. How can you do it for Wordpad?

A: From George Skarbek: There is a way around this by using the Microsoft program called Tweakui. If Tweakui is not in the Control Panel, then it can be installed from the Windows 98 CD under \tools\reskit\powertoy. View the Readme file for installation information. After installation, open Tweakui, go to the General tab and alter the Folder from *My Documents* to the desired directory and from now on Notepad will open as before the upgrade. Tweakui has many options and am I sure that readers may find useful features there. It is a very small program

by Microsoft standards (156 KB) and it contains solutions to several other common questions.

Q: I put a CD-ROM in before Windows 98 had finished booting. I got a message about *backing up registry files, restoring registry files and you have restored a good registry*. Nothing else has happened since. If I hit enter, I get the registry checker again. What files should be backed up to get back to a good system?

A: I can't explain why this happened. The registry is stored in C:\Windows and consists of two files — system.dat and user.dat. You should back these up daily. The best way is to create a batch file eg regback.bat containing the line `xcopy c:\windows*.dat c:\regback /H`

Q: I have an AGP graphics card that I installed using the motherboard CD-ROM. This works well under Windows 95 but causes pixilation under Windows 98. Why would this happen?

A: Get the latest video drivers from the web site. Also check the web site for any FAQs describing your problem. Look for problems involving the card with the motherboard or the chip set. There may be patches or workarounds or an email address for technical support.

Q: I am having problems printing from the internet. About 10-15 mm is chopped off the width. I have checked all the settings but cannot get the full print width.

A: Save the page and print it. Try changing the font size. Check the printer defaults as some printers have a larger non-print area. Use the File\Print menu in the browser rather than using the print icon.

Q: I live out of Melbourne and use an ISP in Geelong. I still have my Melb PC internet account and can read my Melb PC mail but cannot send replies.

A: Reading mail uses POP but sending uses SMTP. You need to change the SMTP settings for your Melb PC connection to send from your Geelong ISP. Contact your ISP or if you can send from your Geelong account, use the same SMTP settings. Alternatively you can send a request to Admin or Help at Melb PC to forward your mail to the Geelong ISP.

Unanswered questions

From Ted O'Grady: I find myself in a dilemma that I never thought possible. I have some financial files that were created on a Version of WinCheck between January 1991 and August 1992. I need to access these files which are small in size, the largest being 5KBytes, average about 1KByte. I can locate version 1.0 of WinCheck that readily loads on my WIN98 SE system and runs. When I try to open the said files I get the unusual message that the files were created on a later version of WinCheck. How the program reads that information I cannot understand. If it said they were created on an earlier version! yeah I could understand. Does anyone have a later version that I could use to open these files?

From Joel: I am running a 200M MX, with 32 MB RAM, and every time I turn on, the screen turns on, but nothing else happens. It makes the initial start-up noise, then stops. I turn it off, then about 10 secs later turn it on again and all is fine. I don't know what could be causing this, as it just *started to happen*.

From Jim Thyer: I have a friend with an old Microbee, who needs to convert some old Wordstar files to IBM disk format. There used to be a program *Alien* or *PC-Alien* as I recollect. Is this still available? (I cannot ask Glenn Webster directly, as he has no email address in the magazine). If it is in the software library I would like to get it. I don't feel like having to do 100+ pages of OCR work if I can read the old disks.

MONTHLY MEETING

All members and
guests
welcome

Pharmacy College

381 Royal Parade

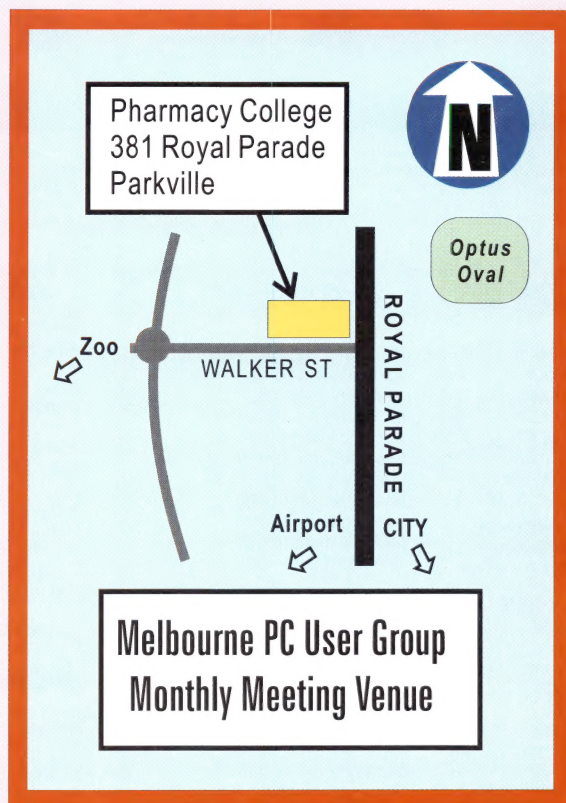
Parkville

6:00 pm

First Wednesday each
month

Do you have a product that would interest our members? An average of over 400 members and guests attend our monthly meetings, which provide an excellent forum to introduce and release new products to those who are both users and decision-makers.

Meetings are arranged around planned themes. Members or presenters who are able to assist or contribute are invited to contact the convener, **Brian Horman**, via the office, on 9699 6222 or e-mail brianh@melbpc.org.au



Next Meeting October 6

New Microsoft Windows 2000
Unveiling

HPM Computer Clock

GoBack Software presentation

Acknowledgments

Melbourne PC User Group gratefully acknowledges the support provided by the following organisations:

American Power Conversion for the supply of six uninterruptible power supplies for the Group's Communications Centre.

Computer Rebuilds for the supply of equipment used in the Group's Communications Centre and in the production of *PC Update*.

Michaels Camera & Video for a Kodak DC20 Digital Camera.

Microsoft Australia for many years of contributions and support.

SONY Australia for the supply of equipment used in the production of *PC Update*.

Symantec Australia for many years of contributions and support.

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TECS	24
The Worsley Press	4

Falcon

- Intel Celeron 400 CPU
- 128K cache
- Gigabyte LX / 1810 chipset
- 32M SDRAM
- 4.3G ultra IDE HDD
- 1.44M FDD
- 8M ATI AGP video on-board
- 15" Hyundai monitor
- 40X CD-ROM drive
- PCI 3D sound on-board
- Pair of speakers
- Logitech mouse & pad
- 104 keyboard
- Micro ATX mini-tower case & PSU
- 56K internal PCI voice/fax/modem
- Windows 98
- Vet anti-virus software

\$1550

Condor

- Intel Pentium II 450 CPU
- 512K cache
- Gigabyte BX chipset
- 64M SDRAM
- 8.4G ultra IDE HDD
- 1.44M FDD
- 8M ATI Xpert98 AGP video
- 15" Hyundai monitor
- 40X CD-ROM drive
- Creative SB128 sound card
- Pair of speakers
- Microsoft mouse & pad
- 104 keyboard
- Choice of ATX mid-tower or desk-top case
- 56K internal PCI voice/fax/modem
- Windows 98
- Vet anti-virus software

\$2260

Raptor

- Intel Pentium III 500 CPU
- 512K cache
- Gigabyte BX chipset
- 128M SDRAM
- 13G ultra IDE HDD
- 1.44M FDD
- 16M ATI Xpert128 AGP video
- 17" Hyundai monitor
- 6X DVD-ROM drive
- SB128 PCI sound card
- Genius 3D 200W speakers
- Microsoft mouse & pad
- 104 keyboard
- Choice of ATX mid-tower or desk-top case
- 56K internal PCI voice/fax/modem
- Windows 98
- Vet anti-virus software

\$3255

- Free delivery & setup*!
- 2 year parts & unlimited labour warranty!
- 3 year manufacturer's on-site warranty on Hyundai monitor!

* Limited to Melbourne metro areas only.

TECS on-site computer service

Do you have a sick computer in need of some attention? It's out of warranty and you don't know anyone you can trust? Afraid of unplugging all those cables to take the system to your nearest shop and then having to remember which plug goes where when you get it back? Why not give TECS a call? We can service most IBM compatible PC's on your premises, expertly and efficiently. We can also provide networking solutions. You know that TECS is one name you can TRUST.

Call your local TECS store for details!



Picture for illustrative purpose only. Actual units will vary.

TECS HOT PRODUCTS

MEMORY

8M 72pin FPM	\$39
8M 72pin EDO	\$35
16M 72pin FPM	\$65
16M 72pin EDO	\$65
32M 72pin EDO	\$129
32M 100MHz SDRAM	\$155
64M 100MHz SDRAM	\$305
128M 100MHz SDRAM	\$610

Memory for notebooks

Call for price & availability.
We can source most types.

IDE HARD DRIVES

4.3G Seagate	\$185
6.4G Fujitsu	\$209
6.4G Quantum	\$229
8.4G Seagate	\$239
10G Seagate	\$289
10G Quantum	\$299
13G Quantum	\$349
15G IBM	\$375
18G Quantum 7200rpm	\$519
20.3G IBM	\$475

CPU's

IBM/Cyrix 6x86-333MX	\$75
AMD K6-III-400 3D	\$285
AMD K6-III-450 3D	\$389
Intel Celeron 400 PPGA	\$179
Intel Celeron 433 PPGA	\$229
Intel Celeron 466 PPGA	\$279
Intel Celeron 500 PPGA	\$405
Intel Pentium III 450	\$445
Intel Pentium III 500	\$599
Intel Pentium III 550	\$1135
Intel Pentium III 600	\$1555

MOTHERBOARDS

Gigabyte ALI AGP AT 512K	\$155
Gigabyte AX ALI ATX 512K	\$155
Gigabyte LX Socket 370 AT	\$175
Gigabyte BX2000 ATX	\$230
Gigabyte SIS 6VXE ATX	\$160
Gigabyte BX ATX Ultra SCSI	\$495
PPGA/SEPP adapt.	\$22

Upgrade Specials!

Give your computer a new lease on life by upgrading!*

Offer 1:

- IBM/Cyrix 6x86-333MX CPU
- ASUS SIS chipset AT motherboard
- 32M SDRAM
- 4M S3 Trio 3D/2X AGP video card

\$435

Offer 2:

- Intel Celeron 400MHz CPU
- A-Plus AP921 chipset AT M/B
- 64M PC100 SDRAM
- 8M Intel i740 3D AGP video card

\$699

Prices include installation!

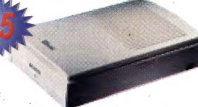
* - Subject to suitability.

Colour flatbed scanner

Specifications:

- A4 size
- Up to 30-bit true colour scanning
- Scan from 75 to 9600DPI!
- Fast single pass scanning
- TWAIN compatible
- Parallel Port interface. Ideal for notebooks!

\$145



Iomega ZIP drives

External parallel

\$219

Internal ATAPI IDE

\$159



LS-120 disk drives

Features:

- 80 times the capacity and 5 times the speed of conventional 1.44M floppy drives.
- Read / write compatible with standard 1.44M and 720K diskettes.
- Each LS-120 diskettes will hold 120M of data. Ideal for storing large download files from the internet.
- Industry standard ATAPI IDE interface.

LS-120 diskettes: \$19.95

\$169



ATI graphics products

RAGE XPERT128

\$285

- 16M of memory.
- 128-bit graphics engine and memory access.
- Ideal for SOHO based PC's.

RAGE MAGNUM

\$395

- 32M of memory.
- 128-bit graphics engine and memory access.
- Hardware DVD decoder.
- Ideal for graphics pros.



\$449

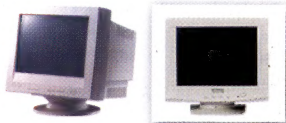
- 32M of memory.
- 128-bit graphics engine and memory access.
- Hardware DVD decoder.
- TV out for BIG SCREEN gaming experience.

Modems

Aztech V90 int. PCI	\$85
Aztech V90 ext. USB	\$115
KTX V90 int. PCI	\$75
KTX V90 ext.	\$119
Banksia V90 ext.	\$225
Netcomm V90 int. PCI	\$89
Netcomm V90 ext. Ultra	\$275
Netcomm V90 ext. USB	\$289

Colour Monitors

3 year manufacturer's on-site warranty on all Magtron, Hyundai, Mirage & LG monitors!



14" LG 44i	\$285
15" Magtron CM-15JN	\$335
15" Hyundai 5854	\$335
15" LG 55i	\$335
15" LG 57i	\$359
15" Sony 100ES	\$579
17" Samtron 70E	\$575
17" Hyundai	\$559
17" Sony 200ES	\$959
19" Viewmaster .26dp	\$1029

MITAC 6033 Notebook

Features:

- Genuine Intel Pentium II 333 CPU
- 64M RAM
- 6.4G hard drive
- 12.1" TFT active LCD screen
- 1.44M floppy drive
- 24X CD-ROM drive
- Carry case
- Windows 98
- SmartSuite 97
- IBM World Book 98

\$3999



3 Year Warranty & 1 Year International Service!

USB connectivity!

USB to IEEE-1284 printer cable

Connect your existing parallel printer to the USB port! Frees up the parallel port for your ZIP drives and / or your scanners. Allows current Microsoft Windows printer drivers to print seamlessly to USB.

\$65

4 port USB HUB

Offers instant hot swap Plug & Play connectivity for up to 4 devices. HUBs can be cascaded to connect up to 127 devices.

\$115

PCI to USB host adaptor

This adaptor provides 2 USB ports for all PCI slot motherboards that don't have a USB interface.

\$59

N.B.: USB connectivity requires Win95b(OSR2) with USB supplement or Win98 operating system.



The Electronic & Computer Stores

Internet web address: www.tecs.com.au

Retail outlets:

City: 305 Latrobe St.

Coburg: 311 Sydney Rd.

Clayton: Cnr. Blackburn & Wellington Rds.

Blackburn: 88 South Pde.

Head office / warehouse:

Nunawading: 5 Silver Grove

Ph:(03)9602-3499 Fax:(03)9642-8551

Ph:(03)9383-7511 Fax:(03)9383-7896

Ph:(03)9562-9501 Fax:(03)9562-9261

Ph:(03)9877-7130 Fax:(03)9877-7382

Ph:(03)9877-7071 Fax:(03)9877-7081

Prices and specifications subject to change without notice. E & OE.

